

TOPFIELD

TF 5000 PVRt Masterpiece

User Guide

Digital Terrestrial Receiver
Personal Video Recorder



DVB
Digital Video
Broadcasting

Digital Broadcasting Australia



Dear customer,

Digital Broadcasting Australia (DBA) congratulates you on your decision to purchase a digital receiver set-top box.

Digital Broadcasting Australia is made up of the free-to-air television stations, consumer electronic suppliers, manufacturers and retailers. Together, we want to ensure the smoothest possible transition to digital for viewers and consumers. You can find out more about DBA by visiting our web site, <http://www.dba.org.au>.

As you are one of the first to experience the unique benefits of digital television in Australia, we are inviting you to join the *DBA Early Adopter Club*.

Membership of the *DBA Early Adopter Club* is completely free. Some of the benefits of membership include:

- Receiving regular updates about digital television in Australia
- On-line access to member-only international news on

digital television developments

You can also provide vital feedback on the features of digital television you like and don't like in occasional on-line surveys—so you can help shape digital television in the future.

To register as a member of the *DBA Early Adopter Club*, please enter your contact details on the registration web page at <http://www.dba.org.au/register.asp>. You will then receive a confirmation of your membership and a sign-on password.

We look forward to welcoming you to the *DBA Early Adopter Club*.

Tim O'Keefe
Digital Broadcasting Australia

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Chapter 1

Introduction

1.1 Introduction

The TF 5000 PVRt Masterpiece digital receiver is fully compliant with the international Digital Video Broadcasting (DVB) standard, and can receive digital broadcastings. To operate it, you need an antenna, which must be installed appropriately.

Unlike analog broadcastings, digital broadcastings are not all assigned to their own frequencies; instead, several television and radio broadcastings are transmitted through a single transponder on a single wideband carrier.

NOTE A transponder is in fact a wireless device, which receives and transmits radio signals at a prescribed frequency range. You may regard a transponder as a channel. One channel has one broadcasting in analog broadcast; on the other hand, one transponder has several broadcastings in digital broadcast. So the word **service** is used instead of **channel** to indicate a broadcasting in this document.

To help you with the choice and setting for broadcasting ser-

2 Introduction

vices, a selection of television and radio services have already been programmed for you. So all broadcasting services that have gone on air are available to you. You can find the latest transponder information from various broadcasters on teletext.

The TF 5000 PVRt Masterpiece digital receiver has features as follows:

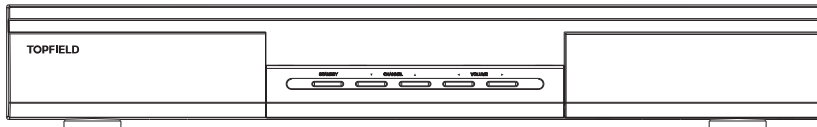
- The digital receiver is able to memorize up to 2000 television and radio services.
- Electronic Program Guide (EPG) provides an overview of program schedules for next few hours.
- You can edit the service list and make your own favorite service list.
- You can view the information of a current television or radio program.
- You can update the firmware of the digital receiver to the latest, which will be provided by Topfield.
- The digital receiver features a digital video recorder with two tuners, with which you can record your choice of broadcasting services independently of ones you are currently watching.
- The large storage capacity of the built-in hard disk allows you to record up to 40 hours of material—in case of 80 gigabytes—in excellent picture and sound quality.
- Time shift function is a special technical feature. You can pause the program you are watching and resume it again at a later time. You can quickly find whatever part of the current program by reverse or forward search.
- During a recording in progress, you can select a different program from the archive and watch it.

1.2 Controlling the digital receiver

You can control the digital receiver with the remote control and the front panel buttons.

NOTE When the digital receiver is off but plugged to a wall outlet, we say that it is in standby mode; on the other hand, when it is on, it is in operation mode. You should keep the digital receiver plugged to a wall outlet so as it can run timer events.

1.2.1 The front panel



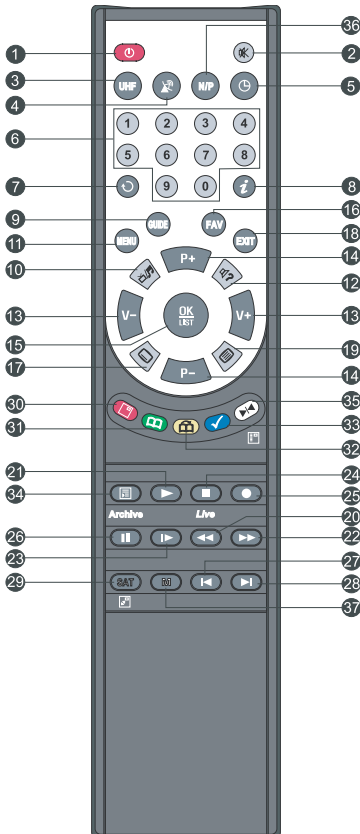
STANDBY button toggles the digital receiver between operation mode and standby mode.

CHANNEL ▲, ▼ buttons switch to another service, and move the highlight bar vertically in a menu.

VOLUME ◀, ▶ buttons change the volume, and select an option in a menu.

Status display displays a current time in standby mode, and displays a current status of the digital receiver in operation mode.






















1.2.2 The remote control









- ① button toggles the digital receiver between operation mode and standby mode.
- ② button mutes the television or audio appliance.
- ③ button displays the RF setting menu. For more descriptions, refer to §3.2.6.
- ④ button toggles operation between the digital receiver and your video recorder. For more descriptions, refer to §3.2.3.
- ⑤ button sets a sleep timer. The digital receiver is turned off to standby mode when a specified duration is elapsed.
- ⑥ Numeral buttons are used to specify a service to watch or a parameter such as timer.
- ⑦ button makes a return to the previous service.
- ⑧ button displays the information about the program on the air.

- ⑨ button displays an electronic program guide.
- ⑩ button toggles between TV mode and radio mode.
- ⑪ button displays the menu, or escapes to a higher level menu out of a submenu.
- ⑫ button is used to select an audio track, a sound mode






or a multifeed if available.

- ⑬   buttons change the volume, and select an option in a menu.
- ⑭   buttons switch to another service, and move the highlight bar vertically in a menu.
- ⑮  button displays the service list, and selects an entry in a menu or list.
- ⑯  button displays the favorite service list.
- ⑰  button is used to select a subtitle track if available.
- ⑱  button escapes from any menu.
- ⑲  button displays teletext if available.
- ⑳  button starts backward playback or backward scan.
- ㉑  button starts a playback.
- ㉒  button starts forward scan.
- ㉓  button starts slow playback.
- ㉔  button stops a playback.
- ㉕  button starts a recording.
- ㉖  button captures a picture from a live show. This button also pauses a playback.
- ㉗  button moves the position of subpicture counter-clockwise.
- ㉘  button moves the position of subpicture clockwise.
- ㉙  button interchanges a main-picture with a subpicture.
- ㉚  button displays, resizes and hides a subpicture.
- ㉛  button makes a bookmark during a playback or a time shift.









- 32  button plays back from a next bookmark position.
- 33  button is used to edit a recording file.
- 34  button displays recording file list, MP3 file list or application file list. For more descriptions, refer to §7.4.
- 35  button displays a service list for subpicture, or specifies a block for a repeated playback.
- 36  button is unavailable for this model.

If you do not have wide-screen television but normal screen television, pressing the  button changes, depending on broadcasting conditions, the display format as follows.

4:3 Center Extract → 4:3 Letter Box → 16:9 Full screen

, , ,  and  buttons have additional different functions per menu besides their own function. Their functions will be guided in the help window on a menu screen.

If the remote control does not work, please check the remote control mode. There are 4 modes with this remote control. You can alter the mode by pressing two buttons simultaneously as follows:

- Mode 1:  + 
- Mode 2:  + 
- Mode 3:  + 
- Mode 4:  + 

The mode 1 will work at default.

Chapter 2

Installation

2.1 Packing contents

Before going any further, check that you have received the following items with your digital receiver.

- Remote control unit
- Two batteries for the remote control (AAA 1.5 V)
- One loop cable, to link the first tuner with the second tuner
- One SCART-to-component cable, to link the digital receiver to your television set
- One RCA cable, to link the digital receiver to your television set
- A copy of this user guide

2.2 Safety precautions

Please read and keep the following safety precautions carefully for your safety.

- The power must be 90 to 250 volt. Check it before con-

necting the digital receiver to the wall outlet. For the power consumption of the digital receiver, refer to Table 2.1.

- The wall outlet shall be installed near the equipment and shall be easily accessible.
- The digital receiver is designed to receive, record and play back video and audio signals. Any other use is expressly prohibited.
- When setting up the digital receiver, make sure it is in a horizontal position.
- Do not expose the digital receiver to any moisture. The digital receiver is designed for use in dry rooms. If you do use it outdoors, ensure that it is protected from moisture, such as rain or splashing water. Do not place any vessels such as vases on the digital receiver. These may be knocked over and spill fluid on the electrical components, thus bring about a risk.
- Use only dry cloth when cleaning the digital receiver.
- Do not place the digital receiver close to heating units or in direct sunlight, as this will impair cooling. Place the digital receiver on a hard, level surface. Do not lay any objects such as magazines on the digital receiver. When placed in a cabinet, make sure there is a minimum space of 10 cm around it. For the physical specification of the digital receiver, refer to Table 2.2.
- Protect the power cord from being walked on or pinched particularly at plugs, receptacles, and the point where they exit from the digital receiver.
- Only use accessories specified by the manufacturer.
- Thunderstorms are a danger to all of electrical devices. Even if the digital receiver is switched off, it can be damaged by a lightning strike to the power line or the an-

tenna cable. Always disconnect the power plug and the antenna cable.

- Never open the digital receiver casing under any circumstances. Warranty claims are excluded for the damage resulting from improper handling.
- Refer all servicing to qualified service personnel. Servicing is required when the digital receiver has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the digital receiver, the digital receiver has been exposed to rain or moisture, does not operate normally, or has been dropped.

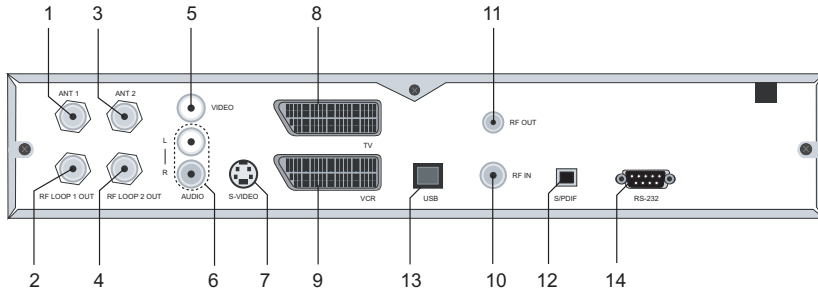
Table 2.1: Power specification

| | |
|-------------------|-------------------------------------|
| Input voltage | 90 to 250 V AC, 50/60 Hz |
| Power consumption | Running: Max. 28 W Standby: 10 W |

Table 2.2: Physical specification

| | |
|-----------------------|-------------------|
| Size | 430 × 60 × 265 mm |
| Weight | 4.3 kg |
| Operating temperature | 0 to 45 °C |
| Storage humidity | 5 to 95 % RH |

2.3 Rear panel connections



- ① ANT 1 IN Broadcasting input socket for the 1st tuner.
- ② RF LOOP 1 OUT Broadcasting output socket through ANT 1 IN for another digital receiver.
- ③ ANT 2 IN Broadcasting input socket for the 2nd tuner.
- ④ RF LOOP 2 OUT Broadcasting output socket through second tuner for another digital receiver.
- ⑤ VIDEO Composite video output socket for the television or the video receiver.
- ⑥ AUDIO L/R Stereo audio output socket for the television or the audio system.
- ⑦ S-VIDEO Super video output socket for the television.
- ⑧ TV Audio and video output socket for the television.
- ⑨ VCR Audio and video input / output socket for the video recorder.
- ⑩ RF IN Analog television input socket.

| | |
|----------|--|
| ⑪ RF OUT | Analog television output socket. |
| ⑫ S/PDIF | Dolby Digital output socket for the audio system. |
| ⑬ USB | USB port for firmware update and data transfer. |
| ⑭ RS-232 | Serial port for firmware update and data transfer. |

Table 2.3: Connectors specification

| | |
|-----------|--|
| TV SCART | CVBS / S-Video / RGB / YUV video output Left & right audio output |
| VCR SCART | CVBS video output Left & right audio output CVBS / S-Video / RGB / YUV video input for bypass Left & right audio input for bypass |
| S-Video | S-Video output |
| RCA AV | Composite video output Left & right audio output |
| S/PDIF | Dolby Digital audio output |
| RS-232 | 9 pin D-sub type Transfer rate: 115.2 kbps at maximum |
| USB | 2.0 Device |

2.4 Connecting the digital receiver

There are several ways to install the digital receiver as described below. Install the digital receiver suitably to your television and other appliances. If you have any problem with your installation or need a help, contact your dealer or service provider.

You should configure audio and video settings after installation. For detailed descriptions about audio and video settings, refer to § 3.2.

Connecting to the terrestrial antenna

Connect the antenna cable to the ANT 1 IN socket on the digital receiver, and then connect the RF LOOP 1 OUT socket and the ANT 2 IN socket with a loop-through cable.

If you have another digital receiver, plug another cable into the RF LOOP 2 OUT socket on the digital receiver and the corresponding socket on the other digital receiver.

Connecting to the television by SCART connector

Plug a SCART cable into the TV socket on the digital receiver and the corresponding SCART socket on your television.

Connecting to the television by RCA connector

Plug a RCA cable into the VIDEO (yellow), AUDIO L (white) and AUDIO R (red) sockets on the digital receiver and the corresponding input sockets on your television or audio appliance.

Connecting to the television by S-Video connector

Plug a standard S-Video cable into the S-VIDEO socket on the digital receiver and the corresponding input socket on your television. You must connect audio sockets on the digital receiver with ones on your television by a RCA cable because the S-video socket outputs only video signals.

Connecting to the video recorder by SCART connector

Plug one end of the SCART cable into the VCR socket on the digital receiver. Then, plug the other end of the SCART cable into the input SCART socket on your video recorder if you wish to record a broadcasting program with your video recorder; otherwise if you wish to watch the video that the video recorder plays back just through the digital receiver, plug the other end into the output SCART socket.

Connecting to the television by RF connector

Connect the RF LOOP 2 OUT socket and the RF IN socket on the digital receiver with a RF cable, and then plug a RF cable into the RF OUT socket on the digital receiver and the corresponding input socket on your television.

2.5 Inserting batteries in the remote control

To insert the batteries, open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment. Close the battery compartment after that.

If the digital receiver no longer reacts properly to remote control commands, the batteries may be flat. Be sure to remove used batteries. The manufacturer accepts no liability for damage resulting from leaking batteries.

NOTE Batteries, including those which contain no heavy metals, may not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

Chapter 3

Preference Settings

3.1 Language settings

You can designate languages for menu, audio track and subtitle track.



To designate the language for menu, audio track or subtitle track, select the System Setting > Language Setting menu.


Menu language

The digital receiver supports a lot of menu languages: Arabic, Dutch, English, German, French, Italian, Russian, Turkish and so forth. Set the Menu Language option to your desired

language. Once you select a language, the menu will be displayed in the selected language immediately.


Subtitle language

Set the 1st Subtitle Language and 2nd Subtitle Language options to your desired language. If a program does not have the subtitle track of the language set to the 1st Subtitle Language, that set to the 2nd Subtitle Language option will be output. If it does not have the second's subtitle track either, no subtitle will be output.

Apart from this setting, you can select a subtitle track with  button when you watch a program. For detailed descriptions about how to select a subtitle track, refer to §5.5.

Audio language

Set the 1st Audio Language and 2nd Audio Language options to your desired language. If the program does not have the subtitle track of the language set to the 1st Audio Language option, that set to the 2nd Audio Language option will be output. If it does not have the second's audio track either, an ordinary audio track will be output.

Apart from this setting, you can select an audio track with  button when you watch a program. For detailed descriptions about how to select an audio track, refer to §5.4.

3.2 Video and audio settings

You have to configure the video and audio settings appropriately to your television and appliances.

16 Preference Settings



To configure the video and audio settings, select the System Setting > A/V Output Setting menu.

3.2.1 Television standard

The digital receiver supports two types of television standard. One is PAL (Phase Alternating Line) standard, and the other is NTSC (National Television Standards Committee) standard. PAL was adopted in European countries while NTSC is adopted in USA, Canada, Mexico and so forth.

If you have a PAL television, you have to set the TV Type option to PAL. In this case, if a service you wish to watch is NTSC standard, the digital receiver converts it into PAL standard for your PAL television. However, its quality would somewhat fall. The opposite case brings about the same result.

The best thing is to watch PAL services with a PAL television and to watch NTSC services with a NTSC television. However, the auto television is able to process both of them. So if you have an auto television, set the TV Type option to Multi. With this option, the digital receiver will output them without standard conversion. This setting is most recommended especially if you are not sure what standard television you have.

3.2.2 Color model

The type of the socket that reads TV on the back panel of the digital receiver is SCART. This is also known as Euro-

connector. Through this socket, the digital receiver is able to output video signals of various color models: CVBS (Composite Video Baseband Signal), S-Video (Super-Video), YUV and RGB. Audio signals are also output together through this socket.

If you have connected the digital receiver and your television by this connector, you should set the **Video Output** option to your desired color model. If you have connected them by RCA connector at which **VIDEO** reads on the back panel of the digital receiver, you do not have to set this option because the digital receiver outputs CVBS video through RCA connector independent of SCART connector.


However, If you have connected them by **S-VIDEO** connector, you have to this option to **S-Video** because the output through S-Video connector comes from the SCART interface.

It is known in general that YUV color model provides the best video quality with little difference from RGB color model while CVBS color model does the worst. However, not all televisions with a SCART socket support YUV color model. Make sure your television supports YUV color model before setting the **Video Output** option to YUV. But there would rarely be televisions that have a SCART socket but do not support RGB color model. So **RGB** would be the most desirable value for this option.

3.2.3 Video cassette recorder

The SCART socket that reads **VCR** on the back panel of the digital receiver is for a video recorder. You would have connected the digital receiver to your video recorder or such an appliance by this connector.

If you have connected the **VCR** socket to the input SCART socket of your video recorder, you have to set the **VCR Scart Type** option to **Standard**. If you have connected it to the output SCART socket, the digital receiver will operate differently

depending on the setting of the VCR Scart Type option. If the option is set to **Standard**, the digital receiver will pass the video from the video recorder to your television when the video recorder starts a playback. But if the option is set to **External A/V**, the digital receiver will not pass the video even though the video recorder starts a playback. To pass it, you have to press  button.

NOTE In this case, it is impossible that the digital receiver records the video which the video recorder plays back because the digital receiver is just a bypass for the video recorder.

3.2.4 Television aspect ratio

If you have a wide-screen television, set the TV Aspect Ratio option to 16:9.



You can enjoy well both wide-screen programs and normal-screen programs with your wide-screen television as the above figures show. The left figure shows a wide picture displayed in the wide screen, and the right figure shows a normal picture displayed in the wide screen.


If you have a normal-screen television, set the TV Aspect Ratio option to 4:3.



You cannot enjoy well wide-screen programs with your normal-screen television as the above figures show. The left figure shows a normal picture displayed in the normal screen. To watch wide-screen programs in the shape like the center figure, set the 16:9 Display Format option to **Letter Box**; then, wide-screen pictures will be reduced to fit to the width of the normal screen. Otherwise to watch them in the shape like the right figure, set the option to **Center extract**; then, wide-screen pictures will be cut out on the left and right sides equally to fit to the width of the normal screen.

3.2.5 Sound mode

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo or mono. Set the **Sound Mode** option as you desire.

Apart from this setting, you can change the sound mode with  button when you watch a program. For detailed descriptions about how to change the sound mode, refer to §5.4.

3.2.6 RF output

If you have connected your television to the RF OUT socket, you should configure the RF output. The digital receiver can make an analog television from a digital television and output it through the RF OUT socket.

Set the **RF Output** option to the television standard that your country supports referring to Table 3.1.

Table 3.1: Television standards by country

| Signal type | Country |
|-------------|---|
| PAL G | Australia, Austria, Cyprus, Czech Republic, Egypt, Estonia, Finland, Germany, Greece, Iceland, Iran, Israel, Italy, Kuwait, Latvia, Libya, Lithuania, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Yugoslavia |
| PAL I | Hong Kong, Macau, Republic of Ireland, South Africa, United Kingdom |
| PAL K | Czech Republic, Hungary, Poland |
| NTSC M | Bahamas, Belgium, Bolivia, Chile, Ecuador, Fiji, Guam, Jamaica, Mexico, Panama, Peru, United States, Venezuela |

Set the RF Channel option to a channel number as you desire. You have to tune your television to the channel set to this option to watch television.

If you have connected your analog television antenna to the RF IN, you can watch analog broadcasts via the digital receiver.

3.3 Local time setting

You should set your local time with the digital receiver for timer events.



To set the local time, select the System Setting > Time Setting menu.

You can set the local time either yourself manually or using Greenwich Mean Time (GMT) automatically; however, it is

recommended to use the Greenwich mean time.

Table 3.2: Time offset table

| Time offset | City |
|-------------|--|
| GMT – 12:00 | Eniwetok, Kwajalein |
| GMT – 11:00 | Midway Island, Samoa |
| GMT – 10:00 | Hawaii |
| GMT – 09:00 | Alaska |
| GMT – 08:00 | Pacific Time US, Canada |
| GMT – 07:00 | Mountain Time US, Canada |
| GMT – 06:00 | Central Time US, Canada, Mexico City |
| GMT – 05:00 | Eastern Time US, Canada, Bogota, Lima |
| GMT – 04:00 | Atlantic Time Canada, La Paz |
| GMT – 03:30 | Newfoundland |
| GMT – 03:00 | Brazil, Georgetown, Buenos Aries |
| GMT – 02:00 | Mid-Atlantic |
| GMT – 01:00 | Azores, Cape Verde Islands |
| GMT | London, Libson, Casablanca |
| GMT + 1:00 | Paris, Brussels, Copenhagen, Madrid |
| GMT + 2:00 | South Africa, Kaliningrad |
| GMT + 3:00 | Baghdad, Riyadh, Moscow, St. Petersburg |
| GMT + 3:30 | Tehran |
| GMT + 4:00 | Abu Dhabi, Muscat, Baku, Tbilisi |
| GMT + 4:30 | Kabul |
| GMT + 5:00 | Ekaterinburg, Islamabad, Karachi, Tashkent |
| GMT + 5:30 | Bombay, Calcutta, Madras, New Delhi |
| GMT + 6:00 | Almaty, Dhaka, Colombo |
| GMT + 7:00 | Bangkok, Hanoi, Jakarta |
| GMT + 8:00 | Beijing, Perth, Singapore, Hong Kong |
| GMT + 9:00 | Tokyo, Seoul, Osaka, Sapporo, Yakutsk |
| GMT + 9:30 | Adelaide, Darwin |
| GMT + 10:00 | Eastern Australia, Guam, Vladivostok |
| GMT + 11:00 | Magadan, Solomon Islands, New Caledonia |
| GMT + 12:00 | Fiji, Auckland, Wellington, Kamchatka |

To set the local time using GMT, perform the following steps:

1. Set the **Mode** option to **Auto**.
2. Set the **Time Offset** parameter to the time difference corresponding to your time zone referring to Table 3.2.

With the above settings, the digital receiver will scan all transponders specified one by one until to get the Greenwich mean

time. Make sure that your local time is displayed right on the Local Time parameter.

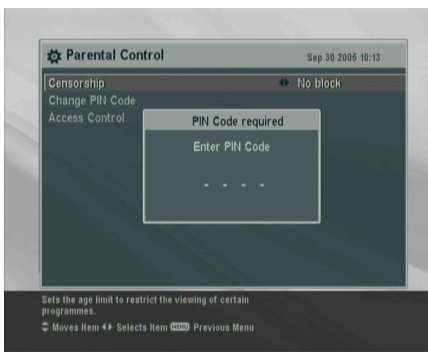
To set the local time yourself, set the Mode option to Manual and enter your local time to the Local Time parameter with the numeral buttons.

The time format is *day/month/year 24-hour:minute*.

3.4 Parental control

In general a television program is labeled a classification according to the level of violence, nudity and language of its content. When you are watching a program, you can check its program classification on the information box. Refer the information box to § 5.2.

You can prevent your children from watching certain programs by specifying a basis classification.



To specify a basis classification, select the System Setting > Parental Control menu. At this time, you have to enter Personal Identification Number (PIN). The default personal identification number is '0000'.

Set the Censorship option to your desired classification among the followings:

- No block restricting no program.
- Total block restricting every program.
- G restricting no program. G stands for *General*, content of which is very mild.

- PG restricting PG or above rated programs. PG stands for *Parental Guidance*, content of which is mild.
- M restricting M or above rated programs. M stands for *Mature*, content of which is moderate in impact.
- MA restricting MA or above rated programs. MA stands for *Mature Accompanied*, content of which is strong.
- R restricting R rated programs. R stands for *Restricted to adults aged 18 years or over*, content of which is very strong.
- AV restricting AV rated programs. AV stands for *Adult Video*, content of which is very hardcore.


NOTE If a certain program does not have any classification information, your restriction setting will not take effect on it.

If anyone try to watch a program that is out of the basis classification, the person has to enter the personal identification number. To change the number, select the **Change PIN Code** menu; then an input box appears. You have to enter your desired number twice for confirmation.

You can also restrict uses of some menus. Selecting the **Access Control** menu displays a list of menus that you can lock. If the **Time Setting** item is set to **Locked**, you have to enter the personal identification number to use when you have selected the **Time Setting** menu. If you enter a wrong number, you cannot use the menu. Similarly, you have to enter the personal identification number when you have switched on the digital receiver if the **IRD Lock** item is set to **Locked**. IRD (Integrated Receiver Decoder) is another name of digital receiver. To release a shut item, set it to **Unlocked**.

3.5 Adjusting on-screen display

You can adjust the transparency level of on-screen display. To adjust the transparency level of on-screen display, select the **System Setting** menu and set the **OSD Transparency** option as you desire. Its available range is 0 to 50 percent.

You can adjust the display time of the information box. For detailed descriptions about the information box, refer to §5.2. To adjust its display time, select the **System Setting** menu and set the **Info Box Display Time** option as you desire. Its available range is 1 to 30 seconds. If you set this option to **No Info Box**, the information box will not be displayed when you switch services; however, pressing  displays the information box. If you set this option to **Never Hide**, the information box will always be displayed.

You can raise or lower the position of the information box. To adjust its position, select the **System Setting** menu and set the **Info Box Position** option as you desire. Its available range is -10 to +3 line. The more high the value is set, the more low the information box will be positioned.

3.6 Enabling the time shift function

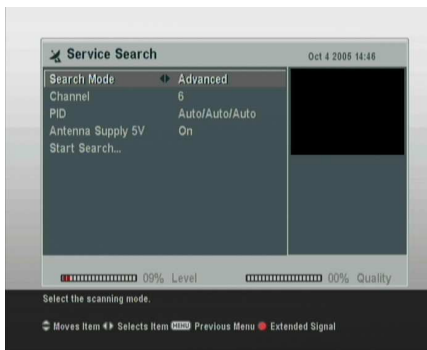
You can use time shift function with this digital receiver. To enable the time shift function, select the **System Setting** menu and set the **Time Shifting** option to **Enable**. For detailed descriptions about the time shift function, refer to §5.8.

Chapter 4

Service Search

You have to perform service search after installing the digital receiver.

4.1 Searching broadcasting services



To perform service search, select the Installation > Service Search menu.

If you have an active antenna, you should set the Antenna Supply 5V option to on to supply power to the amplifier of the antenna. The digital receiver will supply the antenna with 100 milliamperes at maximum.

You should set the **Search Mode** option to **Auto** at the first service search after installing the digital receiver. The digital receiver will search all available services with automatic search mode. Transponder numbers range from 6 to 12 at VHF and 28 to 69 at UHF.

To search a certain transponder, set the **Search Mode** option to **Manual**, and select your desired transponder at the **Channel** parameter.

To search one service of a transponder, set the **Search Mode** option to **Advanced**, and specify the PIDs of your desired service at the **PID** menu with the numeral buttons. PID (Packet Identifier) is a set of numbers that identifies transport stream packets.

To start service search, select the **Service Search** command. Then appears a list box, in which found services will be listed. Press the **[OK]** button to save found services when service search has been completed. To stop service search on the way or exit without saving, press the **[EXIT]** button.

4.2 Resetting to factory settings

The digital receiver maintains the following data:

- Service list
- Favorite list
- Timer events
- Preference settings

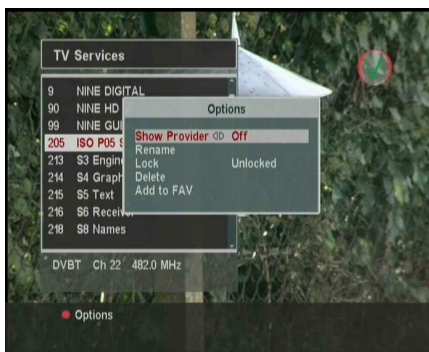
You can reset all data of the digital receiver. To reset all the data, select the **Installation > Factory Setting** menu. Then a confirmation box appears. With the **Yes** reply, service entries, favorite entries and timer events will be all deleted, and preference parameters will be reset to the manufacturer's factory settings.

Chapter 5

Daily Usage

5.1 Browsing services

To switch over to another service, press the **[P+]** or **[P-]** button. Pressing **[↺]** button recalls the service you have watched just before. You can switch to your desired service by entering its service number with the numeral buttons. You can also select a service to watch in the browsable service list. To see the browsable service list, press the **[OK]** button.



The service list enumerates the following items:

- Service number
- Service name
- Transmitting transponder

A dollar mark (\$) may be marked on some entries, which

means pay service. You cannot watch pay services with this receiver.

To select your desired service, put the highlight bar on its entry with the **(P+)** or **(P-)** button and press the **(OK)** button. Then your selected service will be shown. Pressing the **(V-)** or **(V+)** button skips over 10 entries up or down. Selecting a service number with the numeral buttons puts the highlight bar on its entry.

Pressing the **(F)** button displays an option box, in which you can do the following things:

- To browse service entries grouped by service provider, set the **Show Provider** option to on. You may regard a service provider as a transponder.
- To rename a current service entry, select the **Rename** command, then a keyboard appears with which you can enter a name.
- To prevent other family from watching a current service entry, set the **Lock** option to **Locked**. You have to enter PIN code when to watch or unlock a locked service.
- To add a current service entry in a favorite group, select the **Add to Fav** command; then a favorite group list will be displayed. Put the highlight bar of the group list on a desired group and press the **(OK)** button.

Watching a favorite service

You can select a service to watch in the favorite list as well as in the service list. To display your favorite list, press the **(FAV)** button; then a favorite group list will be displayed. Whenever moving the highlight bar of the group list up or down, favorite services belonging to a highlighted group are listed.



To select a favorite service of a group, press the **(V+)** button; then the highlight bar of the favorite list becomes movable. Once you select a desired entry with the **(OK)** button, the selected service will be shown. Otherwise to select another group, press the **(V-)** button; then the highlight bar of the group list becomes movable.

If you switch to another service after you have selected a favorite service, it will be also another favorite service of the selected group. The digital receiver will remind you what group you have selected displaying its name on the right top of the screen whenever you switch to another service. If you wish you can select all services, select the All services entry in the favorite list.

For how to edit the favorite list, refer to Chapter 6.





5.2 Viewing program information







Pressing **(i)** button displays an information box, in which you can verify the followings:



- Service number
- Service name
- Signal level and quality
- Program name
- Program classification
- Program commentary
- Broadcasting time
- Current time

In addition, you might see the following symbols:

- Subtitle symbol  if subtitles are provided on a current program.
- Teletext symbol  if teletext is provided on a current program.
- Lock symbol  if a current service is locked.
- Dollar symbol **\$** if a current service is a pay service.
- Multifeed symbol  if a current program is provided in multifeed service.

Pressing  button once more displays detailed information about the current program. If an electronic program guide is provided on a current service, you can see the information about next programs with the  or  button. To adjust the sound volume in this case, press the  or  button unceasingly until the sound bar appears and reaches your desired degree. To hide the information box, press the  button.

5.3 Viewing an electronic program guide

The Electronic Program Guide (EPG) is an application used with digital receivers to list current and scheduled programs that are or will be available on each service with a short summary or commentary for each program.



Pressing the **GUIDE** button displays an electronic program guide, in which you can see the following things:

- Scheduled programs
- Program commentary
- Broadcasting date
- Broadcasting time

To see detailed information of a desired program entry, put the highlight bar on your choice with the **P+** or **P-** button and press **i** button.

To switch over to another service, press the **V-** or **V+** button.

To see an electronic program guide for radio broadcast, press **RF** button. To turn it back, press **RF** button again.


Pressing the **RT** button displays the electronic program guide for each service. To turn it back, press the **RT** button again.

You can make a timer recording by the electronic program guide, for which refer to §7.1.3.

5.4 Selecting an audio track




Some programs are provided with audio tracks of one or more languages. Pressing **PS** button lists, if any, available audio tracks. However, if a multifeed service is available at the moment, a multifeed service list will be displayed. In this case, you have to press **PS** button once more to select an audio track. Select your desired audio language in the list, and it will be sounded. In addition, you could enjoy, if available, one among four sound modes: Stereo, Mono, Left or Right.

5.5 Selecting a subtitle track

Some programs are provided with subtitle tracks of one or more languages. When you view an information box, a subtitle symbol (☐) will be marked on it if one or more subtitle tracks are provided. If it is, press  button, then available subtitle tracks will be listed. Select your desired subtitle language in the list, and it will be displayed.

5.6 Viewing a teletext

Some programs are provided together with such profitable information as weather reports, news or stock quotations by means of teletext. Televisions are supposed to process teletext; however, there rarely are televisions being incapable of that. Even if your television cannot process teletext, you can enjoy it with the digital receiver.

When you view an information box, a teletext symbol (☐) will be marked on it if it is provided. Press  button to view a teletext. You can zoom in the teletext with the  button and adjust the transparency of teletext with the  button. To clear the teletext, press the **EXIT** button.

5.7 Selecting a multifeed service

Some pay service provider provides one program through several services at the same time but with time differences. Those are called multifeed services.

| Service No. | Starting time |
|--------------------|----------------------|
| 101 | 13:00 PM |
| 102 | 13:15 PM |
| 103 | 13:30 PM |
| 104 | 13:45 PM |
| 105 | 14:00 PM |

For example, assume a movie would be broadcasted through five services like the table on the left. Even if you have missed the first service, you can use the rest service to watch the movie.

When you view an information box, a multifeed symbol (📺) will be marked on it if it is available. To select a multifeed service, press ⏮ button, then available multifeed services will be listed. Select your desired multifeed service in the list, and it will be shown. At this time, you have to press ⏮ button once more to select an audio track.

5.8 Watching by time shift

When you are watching a program, you can reverse and watch it again as if it is a recording. This function is called time shift. When you are watching a program using the time shift function, it is in fact being recorded temporarily.





To use the time shift function, the Time Shifting option have to be set to Enable. Refer the Time Shifting option to §3.6.

How to use the time shift function is as follows:

1. Press ⏮ button, then a time shift begins as a progress bar appears. The progress bar has two pointers. One indicates recording position, and the other indicates playback position. While this bar is on display, you can move the program backward or forward. Pressing ⏮ makes the progress bar appear and disappear alternatively.
2. To find a desired playback position, press ⏮ or ⏭ button unceasingly until find it.
3. Pressing the ⏮ button reverses the program to 10 sec-

onds back.







4. To end time shift, display the progress bar with  button and press  button.

5.9 Watching by picture in picture



You can watch two services at the same time, one of which is shown in a subpicture. This function is called Picture-in-Picture (PiP).

How to use the picture-in-picture function is as follows:

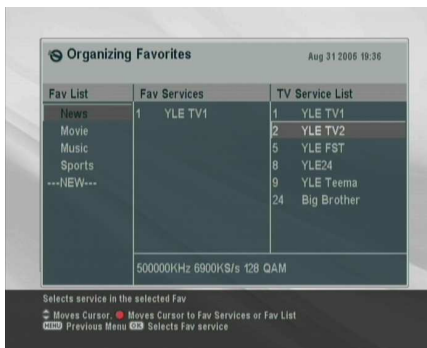
1. Press the  button to display a subpicture, in which another service will be shown.
2. Pressing the  button once more minifies the subpicture, and pressing it once again hides the subpicture.
3. Pressing the  button interchanges the main-picture with the subpicture. Even when you play back a recording, you can watch a live service in subpicture. However, the picture interchange will not work in that case.
4. Pressing  button moves the subpicture counterclockwise, and pressing  button moves it clockwise.
5. To display a service list for the subpicture, press  button.
6. If both are pay services all, the only main-picture will be shown.

Chapter 6

Listing Services

Editing favorite list

You can make your own favorite service list. To edit your favorite list, select the **Organizing Favorites** menu; then an editable favorite list appears.



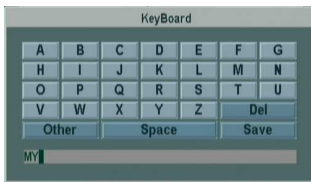
There are a group list on the left column, a favorite list on the center column and a service list on the right column.

You can add a favorite entry performing the following steps:

1. Put the highlight bar on a desired group entry in the group list and press the **OK** button.

2. Then the highlight bar of the service list becomes movable. Put the highlight bar on a desired service entry and press the **OK** button.
3. Then the selected service entry is added in the favorite list. You can select more entries to add.
4. Press the **Left** button to select another group. Whenever pressing the **Left** button, the highlight bar of each column becomes movable in turn.

You can add groups up to 30. To add a group, select the **NEW** command in the group list; then a on-screen keyboard appears.



You can move the highlight key horizontally with the **V-** and **V+** buttons and vertically with the **P+** and **P-** buttons. Pressing the **OK** button on a key enters the corresponding letter in the input line.


To type lower case letters or numerals, select the **Other** key. To delete a letter, put the cursor on a desired letter in the input line and select the **Del** key. You must select the **Save** key to complete naming. Otherwise if you press the **EXIT** button, it will not be named.

To rename a group, put the highlight bar on a desired group entry to rename and press the **Ren** button; then the on-screen keyboard will appear likewise.

To delete a group, put the highlight bar on a desired group entry to delete and press the **Del** button; then a confirmation box appears. The selected group will be deleted with the **Yes** reply.

Similarly, you can delete a favorite entry with the **OK** button in the favorite list.

To add radio services, press **RF** button; then radio service en-

tries will be listed in the service list. To recall the television service list after adding radio services, press  button again.

With your favorite service list, you can select your favorite services more handily. Refer to §5.1 for more descriptions.

Chapter 7

Recording and Playing Back

With one tuner of the digital receiver, you can record a service and at the same time watch another service if the two services are provided through a same transponder. The TF5000 PVRt Masterpiece digital receiver has two tuners so that you can enjoy the following things:


- It is possible to record two different services as watching two other different services only if two or more services are provided through a same transponder and the other services are provided through another same transponder. You can watch two services at the same time using picture-in-picture function in this case. For detailed description about the picture-in-picture function, refer to §5.9.
- It is possible to record two different services as watching one of them with time shift function. For detailed description about the time shift function, refer to §5.8.
- It is possible to record two different services as playing back a recording file.

7.1 Recording a program

Once a recording is started, a recording symbol like the next figure will be displayed on the right top of the screen for a few seconds. When you are watching a service different from the service being recorded, you can view a number on the center of the symbol, which indicates the order that the recording is started. The outer circle of the recording symbol indicates progress rate.


NOTE When a recording is finished, it might not be saved if its recording duration is less than 1 minute.

7.1.1 Immediate recording by the remote control

To record a program you are watching at present, press  button.


To pause recording, press  button. To resume it, press  button again.




After a recording is started, pressing  displays a recording control box like the next figure, in which you can specify its duration on which it will be ended.


A current recording will be stopped after the time set to the Duration parameter. If the information about the next programs is provided through the electronic program guide, the After this program and After next program options would be available. Once the After this program option is selected, the


current recording will be stopped the moment the current program ends; likewise, once the *After next program* option is selected, the current recording will be stopped the moment the next program ends.

Selecting the *Record pause* command pauses recording. When you press  button again to display the recording control box, the *Record continue* command is displayed instead. Selecting the *Record continue* command resumes recording.



To stop recording, press  button. Then a confirmation box like the next figure appears, which shows the information of programs being recorded at the moment. Select a program you want to stop.

After a recording is started, you can switch over to and watch any other service during the recording. To record another service additionally, switch over to a service you want to record, and press  button.


Once a recording is started, it is put on the recording file list even though it is not finished yet. The recording file is named after its service name with a suffix of a number. To display the recording file list, press  button. For detailed description about the recording file list, refer to §7.2.

7.1.2 Making a timer recording

You can make a program to be recorded at a specific time. Even If the digital receiver is off, it will be turned on and start recording at a time specified. The digital receiver will be turned off again as the recording ends.



To make a timer recording, select the **Timer Setting** menu; then a timer list appears.

To add a new timer entry, press the  button, and then a timer edit box appears.

You have to set the **Record** option to **On** to record a program. If this option is set to **Off**, the digital receiver will be turned on at a specified time but not record; instead, you may record a program with your video recorder in this case.

If you want to record a radio program, set the **Type** option to **Radio**. Otherwise set to **TV**.

Set the **Service** parameter to the service which provides the program you want. Pressing the **[OK]** button on this parameter displays a service list in which you can select a desired service.

There are 5 timer modes:

One Time means literally 'one time' as it stands.

Every Day means literally 'every day' as it stands.

Every Weekend means 'Saturday and Sunday per week'.

Weekly means 'one day per week'.

Every Weekday means 'from Monday to Friday per week'.

If your favorite program is broadcasted at weekend and you wish to record every episode of the program, set the **Mode** option to **Every Weekend**.

Set the **Date** parameter to a date, on which your program will be recorded. The date format is *day/month/year–day of the week*.

Set the **Start Time** parameter to a time, at which your program will be recorded. You can enter it with the numeral buttons. The time format is *hours:minute*.

Set the **Duration** parameter to a time, after which your recording will be finished.

The allowable maximum value is 23 hours and 55 minutes.

Pressing **[OK]** on the **File Name** parameter displays an on-screen keyboard, with which you can specify a file name for your timer recording. If you do not specify anything, it will be named after its service name. For how to use the keyboard, refer to Chapter 6.

To make an entry with the above settings, do press the **OK** command. otherwise it will not be made.


You can edit or delete a timer entry in the timer list. To delete a timer entry, put the highlight bar on the entry you want and press the **[M]** button. To edit a timer entry, put the highlight bar on the entry you want and press **[OK]** button, then the timer edit box appears, in which you can change its timer settings.

7.1.3 Recording by electronic program guide









The Australian electronic program guide is provided by IceTV and your digital receiver comes with a 6 month pre-paid subscription. This lets you schedule recordings by simply clicking on the name of the program. The program guide is automatically fetched through the Internet.

For instructions on setting up IceTV please visit <http://www.icetv.com.au/topfield>. How to set a timer recording by the program guide is as follows.

1. Select the service you want to record.
2. Press the **GUIDE** button to display its electronic program guide.
3. Select a program you want to record. Pressed the **OK** button one time, **P** is marked up on the program entry; pressed once more, **R** is marked up. The former indicates turn-on, the latter indicates record-on.
4. This timer recording is put on the timer list. To edit this timer recording, press  button, then a timer edit box appears, in which you can change its timer settings.
5. To remove the marking, press the **OK** button once again.

7.1.4 Recording when using time shift

While you are watching a program by time shift function, you can record the program by performing the following steps:

1. Press  button to start time shift.
2. To find a desired recording position, press  button or  button unceasingly until you find it.
3. Press  button to start recording.
4. Press  button to stop time shift.
5. Press  button once more to stop recording.

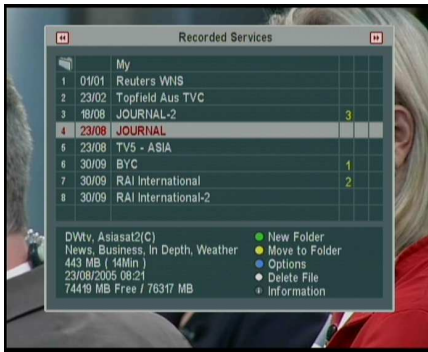
For detailed description about time shift function, refer to § 5.8.

7.2 File list

In recording a program, it is stored as a file in the built-in hard disk of the digital receiver. You can choose and play back a recording file you want in the recording file list.

In addition to the recording file list, there are MP3 file list and Topfield Application Program (TAP) file list. With the digital receiver, you can enjoy music or audio books of MP3 format in the same manner as playing back a recording file.

For detailed description about Topfield application program, refer to Chapter 8.



To see the recording file list, press button.


To turn to another list, press button or button.

In a file list, a file entry is comprised of the following information: file number, file name, recording time, file size and so on. You are able to play back, move, delete, rename and lock a file entry in a file list. You are also able to sort the file entries by file name, recording time or file size. Moreover, you can make a new folder.


To make a new folder

To make a new folder, press button. Then a new folder named GROUP # is created. You can rename the folder in the same manner as renaming a file entry.

To move a file to another folder


To move a file to another folder, put the highlight bar on a file entry you want and press  button. Then a folder list appears. Once you choose a folder in the list, the file gets moved to that folder.

To delete a file

To delete a file, put the highlight bar on a file entry you want and press  button. Then a confirmation box appears. The selected file will be deleted with the Yes reply.


To sort file entries

To sort file entries, perform the following steps:

1. Put the highlight bar on a file entry you want.
2. Press  button to display an option list.
3. Set the **Sorting** option to **Alphabetic**, **Time** or **Size** as you want.
4. Press the **EXIT** button.
5. The file entries are sorted by the option specified.

To rename a file




To rename a file, perform the following steps:


1. Put the highlight bar on a file entry you want.
2. Press  button to display an option list.
3. Select the **Rename** menu to display an on-screen keyboard.
4. Enter and save a file name as you want with the keyboard. For how to use the keyboard, refer to Chapter 6.
5. The file is renamed as specified.

You can rename a folder in the same manner.

To lock a recording file

To lock a file, perform the following steps:

1. Put the highlight bar on a file entry you want.
2. Press  button to display an option list.
3. To lock the file, set the Lock option to Locked.
4. To unlock the file, set the Lock option to Unlocked.
5. Press the  button.
6. A lock symbol  is displayed on the file entry.




When you press the  button on a locked file entry to play it back, you must enter the personal identification number specified in the Parental Control menu. For the Parental Control menu, refer to §3.4.

NOTE This function is available only in the recording file list

7.3 Playing back a recording

When recording a program, all of service characteristics are recorded as they are. So, in playing back a recording file, you can enjoy its audio tracks, subtitle tracks and teletexts if available.

How to play back a recording file is as follows:

1. Press  button to display the recording file list.
2. Put the highlight bar on a file entry you want to play back.
3. Press the  button to start playback.
4. To stop playback, press  button.



Once a playback is started, a playback symbol like the next figure will be displayed on the right top of the screen for a few seconds. The outer circle of the playback symbol indicates progress rate.

During a playback, you can enjoy the following tricks:

- To see the detailed information about a recording file being played back, press to display an information box. The information box shows its file name, broadcaster information, service information, duration and so on.
- To pause playback, press button. To resume it, press button.
- To find a desired playback position, press button or button unceasingly until you find it.
- To see a current playback position, press button to display a progress bar. To hide the progress bar, press again.




You can specify a playback position entering percent with the numeral buttons when the progress bar is hidden.

7.3.1 To play back in slow motion

To play back in slow motion, press button on playback. Whenever pressing button, playback speed changes in 3 steps: $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{1}{8}$ times speed. To return to normal speed, press button.




7.3.2 To play back in fast motion

To play back in fast motion, press button on playback. Whenever pressing button, playback speed changes in 3 steps: 2, 4 and 6 times speed. To return to normal speed, press button.

The digital receiver can play back not only forward but also backward in fast motion. To play back backward in fast motion, press  button. Whenever pressing  button, playback speed changes in 3 steps: 1, 2 and 3 times speed. To turn to forward playback, press  button.



7.3.3 To play back recordings in sequence

The digital receiver can play back several recording files in sequence. To use this utility, perform the following steps:




1. Press  button to display the recording file list.
2. Select file entries you want to play back by pressing  button.
3. When a file entry is selected, it is numbered.
4. Press the  button to start playback after selecting all of your entries.
5. The selected recording files are played back in sequence that they are numbered.


7.3.4 To make a bookmark



You can specify a playback position as a bookmark with  button and jump to the position with  button. You can make 64 bookmarks at maximum. Bookmarks are stored with the recording file so that you can use them again afterwards. To use this utility, perform the following steps:




1. Start playback of a recording file you want.

2. To add a bookmark, press  button at a position you want.
3. To jump to a following bookmark, press  button.
4. To delete a bookmark, jump to the bookmark you want and press  button.








When there is no preset bookmark, pressing  button makes a jump forward 30 seconds.

7.3.5 To play back a recording repeatedly

The digital receiver can play back a recording file repeatedly both in whole and in part.

To play back a recording file repeatedly in whole, press  button on condition that the progress bar is hidden. Then an information box with a repeat symbol  is displayed. To quit the repeated playback, press  button again.






To play back a recording file repeatedly in part, perform the following steps:

1. Start playback of a recording file you want.
2. Press  button to display a progress bar.
3. Find one end position of a block you want to specify with  button or  button.
4. Press  button at the position, then the point starts to blink.
5. Find the other end position.
6. Press  button at the position again, then the block turns to green and starts to be played back repeatedly.
7. Press  button to hide the progress bar.
8. To withdraw the block, press  button on condition that the progress bar is displayed.

7.4 Editing a recording






7.4.1 To erase a block from a recording

You can cut out a block such as commercial film from a recording file by performing the following steps:

1. Start playback of a recording file you want.
2. Press  button to display a progress bar.
3. Find one end position of a block you want to specify with  button or  button.
4. Press  button at the position, then the pointer starts to blink.
5. Find the other end position.
6. Press  button at the position again, then a confirmation box appears.
7. Select the Cut command, then the block is erased.





7.4.2 To store a block from a recording

You can store a block from a recording file by performing the following steps:

1. Start playback of a recording file you want.
2. Press  button to display a progress bar.
3. Find one end position of a block you want to specify with  button or  button.
4. Press  button at the position, then the pointer starts to blink.
5. Find the other end position.
6. Press  button at the position again, then a confirmation box appears.


7. Select the **Save** command, then the block is stored. The stored file will named after its source file with a suffix of 'CUT' and a number

In addition, you can copy a recording file in whole or in part when playing back it.

1. Start playback of a recording file you want.
2. Find a desired position from which a copy will be started with  button or  button.
3. Press  button.
4. Pressing  button stops copying. The copied file will be named after its source file with a suffix of 'COPY' and a number.



Once a copy is started, a copying symbol like the next figure will be displayed on the right top of the screen for a few seconds. To see copying status, press




 button. The outer circle of the copying symbol indicates progress rate.





NOTE If copying time is less than about 1 minute, the copying will not be done successfully. It is recommended not to change the playback speed.



7.5 Playing a MP3


To play a MP3 file with the digital receiver, you have to transfer your MP3 files to the digital receiver from your personal computer. For how to transfer your MP3 files to the digital receiver, refer to §9.3.

To play a MP3 file, perform the following steps:

1. Press  button, and then press  button or  button to display the MP3 file list.

2. Put the highlight bar on a file entry you want to play. If you want to play several files, select them with  button.
3. Press  button to start play.
4. To see the detailed information about a MP3 file being played, press  to display an information box. The information box shows its file name, album, artist, duration and so on.
5. To stop play, press  button.

When a MP3 file is being played, pressing `linefigRepeatButton` turns around repeat mode, symbol of which is displayed on the information box.  symbol represents that a current MP3 file will be played repeatedly.  symbol represents that all selected MP3 files will be played repeatedly in turn.

To play all MP3 files in a subfolder, select a desired folder and press  button.

7.6 Formatting hard disk

To format the hard disk of the digital receiver, select the `Installation > Format Hard Disk` menu.

Formatting the hard disk will delete all files permanently. If a new hard disk drive is installed, it must be formatted because the file system of the digital receiver is different from any of the personal computer. You cannot use time shift and record functions with an unformatted hard disk.

Chapter 8

Topfield Application Program




If you are good at programming with C++ language, you can make a program executable in the digital receiver. We call this Topfield Application Program (TAP). In making a TAP, it is recommended to use *Diab* compiler of *Wind River*, whose web site address is <http://www.windriver.com>. Some variants of GCC compiler also might perhaps be available as a compiler for TAPs. You can get the Application Program Interface (API) libraries for TAPs from the Topfield web site, <http://www.i-topfield.com>.

Your TAPs will be run under the following conditions:

- Their extension name is *tap*. If they have any other extension name, they will be ignored.
- They are in the Program Files folder. If they are in other folders, they will be ignored.

For how to transfer your program to the digital receiver, refer to §9.3.


To run a TAP in the digital receiver, perform the following steps:

1. Press  button to display the program file list.
2. Place the highlight bar on a file entry you want to run.
3. Press the  button to start the program.
4. To exit the program, press the  button.



The figure on the left is a running screen of a TAP, *Image Viewer*, which displays image files of BMP, GIF and JPG format. This TAP is available from the Topfieldweb site, <http://www.i-topfield.com>.

In the program file list, you can use a variety of file control functions including: renaming, sorting, deleting and so on. For detailed descriptions about file control functions, refer to §7.2.

If you want a program to run automatically when the digital receiver starts up, move the program to the Auto Start folder. Press the  button at start-up if you want the program not to run.

Chapter 9

Firmware Update and Data Transfer

The digital receiver has a stable and convenient firmware to use. However, a new firmware may be released to improve the digital receiver. You can get a latest firmware and update utilities from the Topfield web site, <http://www.i-topfield.com>.



You should check the firmware information of your digital receiver before downloading a new firmware. To check the current information of the digital receiver, select the Information > IRD Status menu.

NOTE You have to update with only the new firmware of which System ID is identical to yours. otherwise you

will fail in firmware update.

9.1 Updating the firmware

From a computer via USB port

You can transfer a new firmware to the digital receiver from your computer connecting them with a USB cable. You need *TFDN_USB*, the firmware transfer utility for this, which is available at the Topfield web site, <http://www.i-topfield.com>.

To update firmware with this method, perform the following steps:

1. Download a new firmware applicable to the digital receiver from the Topfield web site.
2. Download *TFDN_USB* from the Topfield web site.
3. Plug a USB cable into the **USB** port on the digital receiver and the corresponding port on your computer.
4. Turn on the digital receiver.
5. Run *TFDN_USB*.

How to use *TFDN_USB* is as follows:



1. Press **[Find]** button to select the new firmware file.
2. Press **[Download]** button to start the file transfer.
3. Press **[Stop]** button to cancel the file transfer.
4. Restart the digital receiver.

From a computer via RS232 port

It is possible to transfer a new firmware to the digital receiver from your computer connecting them with a RS232 cable. You need *TFD-Down*, the firmware transfer utility for this, which is available at the Topfield web site, <http://www.i-topfield.com>.

To update firmware with this method, perform the following steps:

1. Download a new firmware applicable to the digital receiver from the Topfield web site.
2. Download *TFD-Down* from the Topfield web site.
3. Plug a RS232 cable into the RS-232 port on the digital receiver and the corresponding port on your computer.
4. Turn on the digital receiver.
5. Run *TFD-Down*.

How to use *TFD-Down* is as follows:



1. Press **Find** button to select the new firmware file.
2. Press **Download** button to start the file transfer.
3. Press **Stop** button to cancel the file transfer.
4. Restart the digital receiver.

From another digital receiver via RS232 port

It is possible to transfer a new firmware to the digital receiver from another same digital receiver connecting them with a RS232 cable.

To update firmware with this method, perform the following steps:

1. Plug a RS232 cable into the RS-232 port on the digital receiver and the other's.
2. Turn both of them on.
3. Select the Installation > Transfer Firmware > Transfer Firmware to Other IRD menu.

9.2 Transferring the receiver data

The digital receiver retains such data as follows:

- Service list
- Favorite list
- Preference settings

It is possible to transfer receiver data to the digital receiver from another same digital receiver connecting them with a RS232 cable.

To transfer receiver data, perform the following steps:

1. Plug a RS232 cable into the RS-232 port on the digital receiver and the other's.
2. Turn both of them on.
3. Select the Installation > Transfer Firmware > Transfer Data to Other IRD menu.

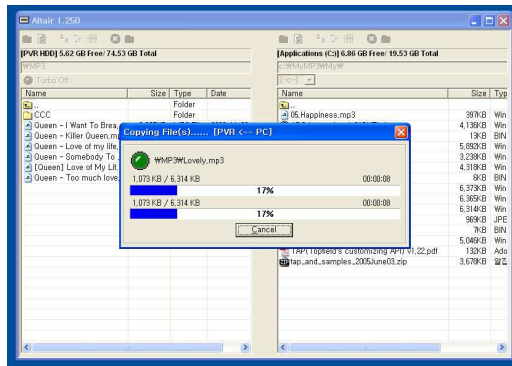
NOTE All of preference settings are transferred together with service information when transferring receiver data. This means that you will lose all of your own data. So You had better memorize some important data such as video settings before starting transfer to avoid re-setting them.

9.3 Transferring recording files

It is possible to transfer recording files from the digital receiver to your computer connecting them by a USB cable. The file transfer program, *Altair* is needed here, which is available at the Topfield web site, <http://www.i-topfield.com>.

The method is as follows:

1. Download *Altair* from the Topfield web site.
2. Plug a USB cable into the USB port on the digital receiver and the corresponding port on your computer.
3. Turn on the digital receiver.
4. Run *Altair*.



How to use *Altair* is as follows:

1. Select a file to transfer. The left hand list box displays recording files in the digital receiver, and the right hand list box displays files in your computer.
2. To start a transfer from the digital receiver to your computer, press \rightarrow button.
3. To start a transfer from your computer to the digital receiver, press \leftarrow button.

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Warranty Information

Do not return this card to TOPFIELD AUSTRALIA

Equipment Details

| Model | Serial Number | Date of Purchase |
|--------------------------|---------------|------------------|
| TF 5000 PVRt Masterpiece | | |

Please keep warranty card, proof of purchase and all manuals in a safe place as you will require these when making a warranty claim.

Ensure that the following conditions are followed when operating the equipment. Failure to do so may result in warranty being void.

- Do Not place the unit in a confined cabinet or cupboard without proper ventilation.
- To prevent shock or hazard risk. Do Not place Liquid or Fluids near the appliance.
- Do Not place appliance in a dusty or wet location.
- Full warranty conditions are listed on the rear of this card.
- Prior to making a claim you should read through the troubleshooting section in the manual and consult the Topfield Australia web site, <http://www.topfield.com.au>.

For further Warranty information or to make a claim please contact Topfield Australia on 1300 889 803.

12 month warranty is offered by the Manufacturer Topfield Co.,Ltd.
Hanseo Bldg, 246-3, Seohyeon-dong, Bundang-gu,
Seongnam, 463-824, Korea.

Topfield Australia acts as the Service agent in Australia for the manufacturer's warranty and can be contacted on 1300 889 803.

Warranty Conditions

1. Where required by Topfield Australia only the original invoice/receipt issued by the dealer will be accepted as proof of purchase.
2. Topfield Australia may reject warranty claims on equipment which it believes to be illegally acquired or when the 'owner' is unable to provide proof of purchase or where security labels or serial numbers have been tampered with or removed.
3. The warranty covers only defects in the material and workmanship of the product for a period of 12 months from the date of original purchase.
4. This warranty is on 'Return to Base' basis. The owner is responsible for the delivery of the equipment to the point of purchase and for collecting the repaired or replaced equipment from the same location.
5. The warranty is void if failures arise as a result of any of the following. i) Abuse, misuse, physical impact, normal wear and tear. ii) Alteration or repairs carried out without written authorization from Topfield Australia. iii) Upgrade that are not registered by Topfield Australia. iv) Operating or maintained other than in accordance with the manual supplied.
6. This equipment will not be considered defective as a result of incompatibility with other equipment or accessories other than the ones supplied with the unit at the time of purchase.
7. This unit should be returned in its original carton and protective packaging or alternatively in a packing suitable to prevent damage. Topfield Australia will not accept any responsibility for goods damaged whilst the goods are in transit.
8. Repair or replacement under the terms of this warranty does not give the right to extension or a beginning of a new warranty period. Repairs or replacements may be carried out with functionally equivalent reconditioned parts or equivalent part. Parts that have been replaced become the property of Topfield Australia.
9. The customer acknowledges that no promise representation or undertaking has been given by Topfield Australia or its dealer in relation to equipment other than as contained in this warranty.
10. A service charge will apply if the fault is not covered within the conditions of this warranty or if there is no fault found. The charge will be based on the current market rate.
11. Topfield Australia is not liable for any other loss other than the unit itself.
12. Nothing contained in this warranty shall be read or applied so as to affect the right of the consumer in relation to the provisions of the trade practices act or other statutory rights provided by legislation of the state or territory. In the absence of applicable legislation this warranty will be purchases sole and exclusive remedy and neither Topfield Australia nor its distributors or agents shall be liable for any incidental or consequential damages for breach of any express or implied warranty of this equipment.



Correct disposal of this product

This marking shown on the product or its literature indicates that it should not be disposed with other household wastes at the end of its working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product or their local government office for details of where and how they can dispose this product for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Topfield continues to improve the digital receiver which this guide explains. So some explanations and illustrations in this guide could be different from the real digital receiver.